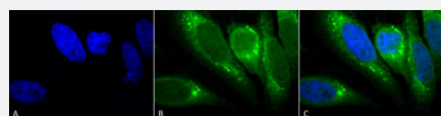


HSPA5 monoclonal antibody, clone 1H11-1H7 (Biotin)

Catalog # MAB17320 Size 100 ug

Applications

Immunocytochemistry



Immunocytochemical staining of HeLa cells with HSPA5 monoclonal antibody, clone 1H11-1H7 (Biotin) (Cat # MAB17320). (A) DAPI (blue) nuclear stain. (B) Anti-HSPA5 Antibody. (C) Composite.

Specification

Product Description	Mouse monoclonal antibody raised against human HSPA5.
Immunogen	His-tagged human HSPA5.
Host	Mouse
Reactivity	Human
Form	Liquid
Conjugation	Biotin
Purification	Protein G purification
Isotype	IgG2b
Recommend Usage	Immunocytochemistry (1:100) Immunofluorescence (1:100) Western Blot (1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide).

Storage Instruction

Store at -20°C.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

- Immunocytochemistry

Immunocytochemical staining of HeLa cells with HSPA5 monoclonal antibody, clone 1H11-1H7 (Biotin) (Cat # MAB17320). (A) DAPI (blue) nuclear stain. (B) Anti-HSPA5 Antibody. (C) Composite.

- Immunofluorescence

Gene Info — HSPA5

Entrez GeneID

[3309](#)

Protein Accession#

[P11021](#)

Gene Name

HSPA5

Gene Alias

BIP, FLJ26106, GRP78, MIF2

Gene Description

heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa)

Omim ID

[138120](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

When Chinese hamster K12 cells are starved of glucose, the synthesis of several proteins, called glucose-regulated proteins (GRPs), is markedly increased. Hendershot et al. (1994) [PubMed 80 20977] pointed out that one of these, GRP78 (HSPA5), also referred to as 'immunoglobulin heavy chain-binding protein' (BiP), is a member of the heat-shock protein-70 (HSP70) family and is involved in the folding and assembly of proteins in the endoplasmic reticulum (ER). Because so many ER proteins interact transiently with GRP78, it may play a key role in monitoring protein transport through the cell.[supplied by OMIM]

Other Designations

Heat-shock 70kD protein-5 (glucose-regulated protein, 78kD)|OTTHUMP00000022124|heat shock 70kD protein 5 (glucose-regulated protein, 78kD)|heat shock 70kDa protein 5

Publication Reference

- [BiP internal ribosomal entry site activity is controlled by heat-induced interaction of NSAP1.](#)

Cho S, Park SM, Kim TD, Kim JH, Kim KT, Jang SK.

Molecular and Cellular Biology 2007 Jan; 27(1):368.

Pathway

- [Antigen processing and presentation](#)
- [Prion diseases](#)

Disease

- [Alzheimer disease](#)
- [Bipolar Disorder](#)
- [Carcinoma](#)
- [Cognition](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Infection](#)
- [Kidney Failure](#)
- [Liver Neoplasms](#)
- [Parkinson disease](#)
- [Schizophrenia](#)
- [Stress](#)